QC-ABSTRACT

Name of Work:- Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	WMM	2559.53 Cum			
	Gradation		13	13	
	Aggregate Impact Value		3	3	
	Shape Test		6	6	
	Atterberg Limit		13	13	
2	DBM	726.85 Cum			
	Quality Binder		1	1	
	Aggregate Impact Value		3	3	
	Shape Test		3	3	
	Specific Gravity		1	1	
	Gradation		2	2	
	Stability of Mix		2	2	
	Bitumin content		2	2	
3	BC	896.87 Cum			
	Quality Binder		1	1	
	Aggregate Impact Value		3	3	
	Shape Test		3	3	
	Specific Gravity		1	1	
	Gradation		2	2	
	Stability of Mix		2	2	
	Bitumin content		2	2	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MSV/W.No.14/2021-22

Date : 26.07.2021

GRADATION FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. MSV Construction Company,** Bangalore.

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IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing 26.07.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	207	207	2.1	97.9	95-100
22.4	2163	2370	23.7	76.3	60-80
11.2	2395	4765	47.7	52.4	40-60
4.75	1524	6289	62.9	37.1	25-40
2.36	1177	7466	74.7	25.3	15-30
0.600	512	7978	79.8	20.2	8-22
0.075	1629	9607	96.1	3.9	0-5

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IS Code: :IS 2386 (Part 1):1963(RA 2011)

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Material Type : Wet Mix Macadam

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Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	201	201	2.0	98.0	95-100
22.4	2745	2946	29.5	70.5	60-80
11.2	2156	5102	51.0	49.0	40-60
4.75	1896	6998	70.0	30.0	25-40
2.36	1015	8013	80.1	19.9	15-30
0.600	625	8638	86.4	13.6	8-22
0.075	1012	9650	96.5	3.5	0-5

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53	0	0	0	100	100
45	238	238	2.4	97.6	95-100
22.4	2467	2705	27.1	73.0	60-80
11.2	2259	4964	49.6	50.4	40-60
4.75	1692	6656	66.6	33.4	25-40
2.36	1351	8007	80.1	19.9	15-30
0.600	588	8595	86.0	14.1	8-22
0.075	1011	9606	96.1	3.9	0-5

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53	0	0	0	100	100
45	239	239	2.4	97.6	95-100
22.4	2406	2645	26.5	73.6	60-80
11.2	2215	4860	48.6	51.4	40-60
4.75	1593	6453	64.5	35.5	25-40
2.36	1073	7526	75.3	24.7	15-30
0.600	498	8024	80.2	19.8	8-22
0.075	1608	9632	96.3	3.7	0-5

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53	0	0	0	100	100
45	255	255	2.6	97.5	95-100
22.4	2671	2926	29.3	70.7	60-80
11.2	2011	4937	49.4	50.6	40-60
4.75	1664	6601	66.0	34.0	25-40
2.36	1138	7739	77.4	22.6	15-30
0.600	607	8346	83.5	16.5	8-22
0.075	1238	9584	95.8	4.2	0-5

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53	0	0	0	100	100
45	256	256	2.6	97.4	95-100
22.4	2587	2843	28.4	71.6	60-80
11.2	2334	5177	51.8	48.2	40-60
4.75	1569	6746	67.5	32.5	25-40
2.36	1035	7781	77.8	22.2	15-30
0.600	611	8392	83.9	16.1	8-22
0.075	1342	9734	97.3	2.7	0-5

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53	0	0	0	100	100
45	253	253	2.5	97.5	95-100
22.4	2397	2650	26.5	73.5	60-80
11.2	2169	4819	48.2	51.8	40-60
4.75	1607	6426	64.3	35.7	25-40
2.36	1135	7561	75.6	24.4	15-30
0.600	622	8183	81.8	18.2	8-22
0.075	1337	9520	95.2	4.8	0-5

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53	0	0	0	100	100
45	197	197	2.0	98.0	95-100
22.4	2166	2363	23.6	76.4	60-80
11.2	2198	4561	45.6	54.4	40-60
4.75	1532	6093	60.9	39.1	25-40
2.36	1247	7340	73.4	26.6	15-30
0.600	575	7915	79.2	20.9	8-22
0.075	1686	9601	96.0	4.0	0-5

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53	0	0	0	100	100
45	215	215	2.2	97.9	95-100
22.4	2803	3018	30.2	69.8	60-80
11.2	2147	5165	51.7	48.4	40-60
4.75	1594	6759	67.6	32.4	25-40
2.36	1253	8012	80.1	19.9	15-30
0.600	607	8619	86.2	13.8	8-22
0.075	1124	9743	97.4	2.6	0-5

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53	0	0	0	100	100
45	187	187	1.9	98.1	95-100
22.4	2134	2321	23.2	76.8	60-80
11.2	2095	4416	44.2	55.8	40-60
4.75	2345	6761	67.6	32.4	25-40
2.36	1217	7978	79.8	20.2	15-30
0.600	751	8729	87.3	12.7	8-22
0.075	802	9531	95.3	4.7	0-5

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53	0	0	0	100	100
45	238	238	2.4	97.6	95-100
22.4	2526	2764	27.6	72.4	60-80
11.2	2137	4901	49.0	51.0	40-60
4.75	1738	6639	66.4	33.6	25-40
2.36	1183	7822	78.2	21.8	15-30
0.600	551	8373	83.7	16.3	8-22
0.075	1207	9580	95.8	4.2	0-5

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Name of Work : Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing 26.07.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	241	241	2.4	97.6	95-100
22.4	2549	2790	27.9	72.1	60-80
11.2	2347	5137	51.4	48.6	40-60
4.75	1589	6726	67.3	32.7	25-40
2.36	1027	7753	77.5	22.5	15-30
0.600	659	8412	84.1	15.9	8-22
0.075	1318	9730	97.3	2.7	0-5

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date : 26.07.2021

GRADATION FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. MSV Construction Company,** Bangalore.

Name of Work : Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing 26.07.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	208	208	2.1	97.9	95-100
22.4	2321	2529	25.3	74.7	60-80
11.2	2169	4698	47.0	53.0	40-60
4.75	1827	6525	65.3	34.8	25-40
2.36	1262	7787	77.9	22.1	15-30
0.600	538	8325	83.3	16.8	8-22
0.075	1191	9516	95.2	4.8	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date: 26.07.2021

Aggregate Impact Value

Client	**: Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**: M/s. MSV Construction Company,** Bangalore.
Name of the Work	: Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	26.07.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	386	388	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	80	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	306	306	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	20.73	21.13	**20.93**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date: 26.07.2021

Aggregate Impact Value

Client	**: Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**: M/s. MSV Construction Company,** Bangalore.
Name of the Work	: Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	26.07.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.31	22.72	**22.51**

Comments:
→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date: 26.07.2021

Aggregate Impact Value

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	: **M/s. MSV Construction Company,** Bangalore.
Name of the Work	: Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	26.07.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	386	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	305	301	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	20.98	21.61	**21.30**

Comments:
→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date : 26.07.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**: Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**: M/s. MSV Construction Company,** Bangalore.
Name of Work	: Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	26.07.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.3	10.5	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	11.8	11.4	
	Combined Flakiness & Elongation index	23.10	21.90	

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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	26.07.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	13.1	11.4	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.7	11.2	
	Combined Flakiness & Elongation index	23.80	22.60	

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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	26.07.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.2	11.9	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.3	10.4	
	Combined Flakiness & Elongation index	23.50	22.30	

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Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date : 26.07.2021

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Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	: **M/s. MSV Construction Company,** Bangalore.
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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	26.07.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.1	11.5	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.9	10.6	
	Combined Flakiness & Elongation index	23.02	22.10	

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Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	: **M/s. MSV Construction Company,** Bangalore.
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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	26.07.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.9	12.2	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	11.6	11.0	
	Combined Flakiness & Elongation index	22.50	23.20	

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Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date : 26.07.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	: **M/s. MSV Construction Company,** Bangalore.
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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	26.07.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.5	11.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.9	10.7	
	Combined Flakiness & Elongation index	21.40	22.30	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date 28.07.2021

Job No.: CQCE/BBMP/MSV/W.No.14/2021-22

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. MSV Construction Company,** Bangalore.

Name of Work : Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985

Date of Testing 26.07.2021 to 28.07.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	18.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date 28.07.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. MSV Construction Company,** Bangalore.

Name of Work : Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985

Date of Testing 26.07.2021 to 28.07.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/MSV/W.No.14/2021-22 Date 28.07.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **M/s. MSV Construction Company,** Bangalore.
Name of Work : Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985
Date of Testing 26.07.2021 to 28.07.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/MSV/W.No.14/2021-22

Date 28.07.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. MSV Construction Company,** Bangalore.

Name of Work : Improvement to CC road and drains at Defense Colony, Havanoor Layout, Munikondappa Layout in Bagalagunte and Improvements to roads and drains at 16th A cross 19th Cross and other cross roads at Bagalagunte main road, improvements to CC roads surrounding of Magnam school Bhuvaneshwari nagara at Bagalagunte ward no 14 (2 Works), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985

Date of Testing 26.07.2021 to 28.07.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

CIVIL QUALITY CONSULTANTS & ENGINEERS

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